

PULL PLANNING FOR UNSERVICEABLE PARTS
IN CONNECTION WITH ON-DEMAND REPAIR PLANNING

ABSTRACT

In one embodiment, planning repairs in response to demand in a multi-level repair network includes accessing a forecasted demand for serviceable parts at a repair location and, for each inspected unserviceable part at the location that is not repairable at the location: (1) planning a move of the part to an upstream repair location such that the part can be available for repair at the upstream location at an estimated earliest time; (2) estimating a latest time at which a repair of the part can begin at the upstream location to help satisfy the forecasted demand, according to the forecasted demand and the estimated earliest time, and planning a repair at the upstream location at the estimated latest time; and (3) re-planning the move, according to the start time of the repair, by modifying a move delivery time according to a repair start time and modifying a move start time according to the modified delivery time. The re-planned move start time is an estimated latest time at which the part can be moved to the upstream location for repair to help satisfy the forecasted demand.